

.NET Platform Roadmap

**John Shewchuk
.NET Platform
Architect**

Microsoft®
PDC 2000
Professional Developers Conference

Microsoft®
.net

the defining

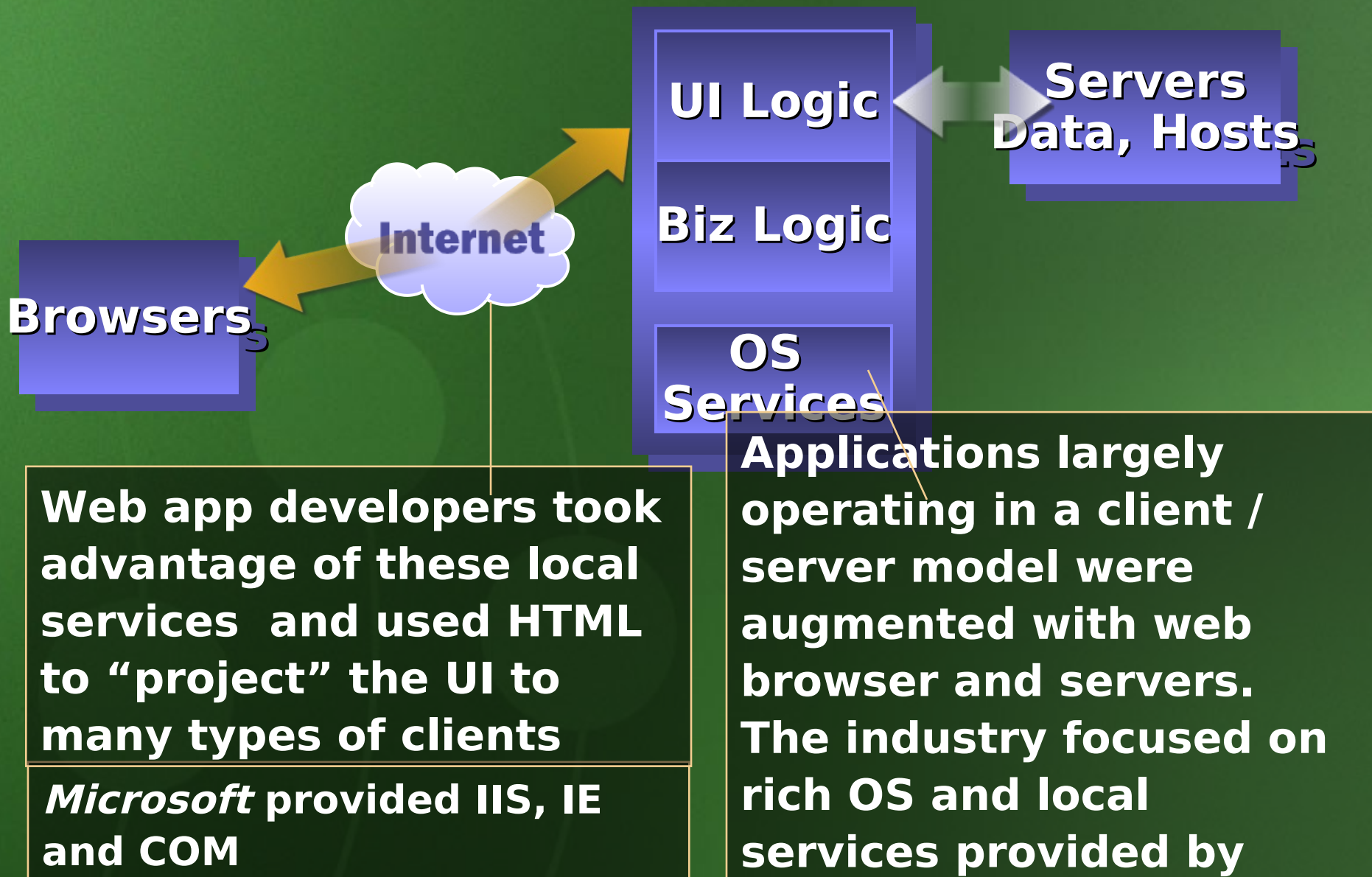
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General Session

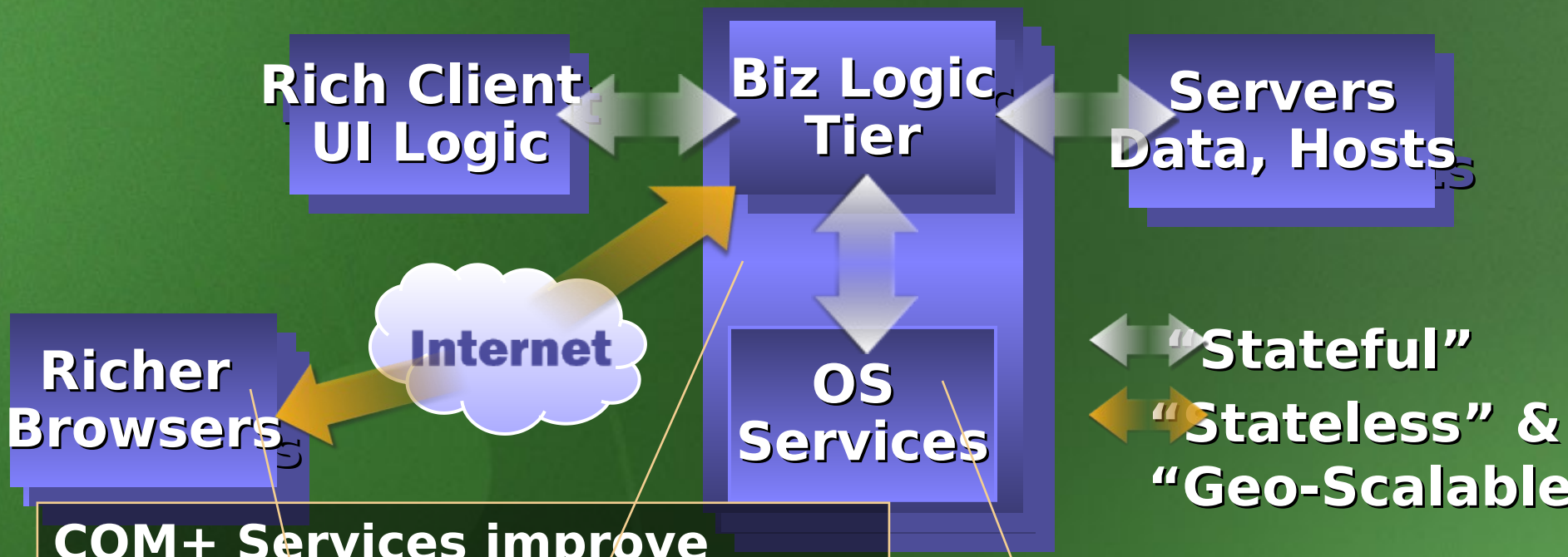
Agenda

- Roadmap
John Shewchuk
- .NET Framework with ASP+
Mark Anders
- .NET Frameworks and Visual Studio
Anders Hejlsberg and Dave Mendlen
- Orchestration and BizTalk Server
Amit Mital
- Running Web Services and Applications

1st Generation



2nd Generation



COM+ Services improve reliability, scalability and manageability. IE provides D/HTML for better interactivity.

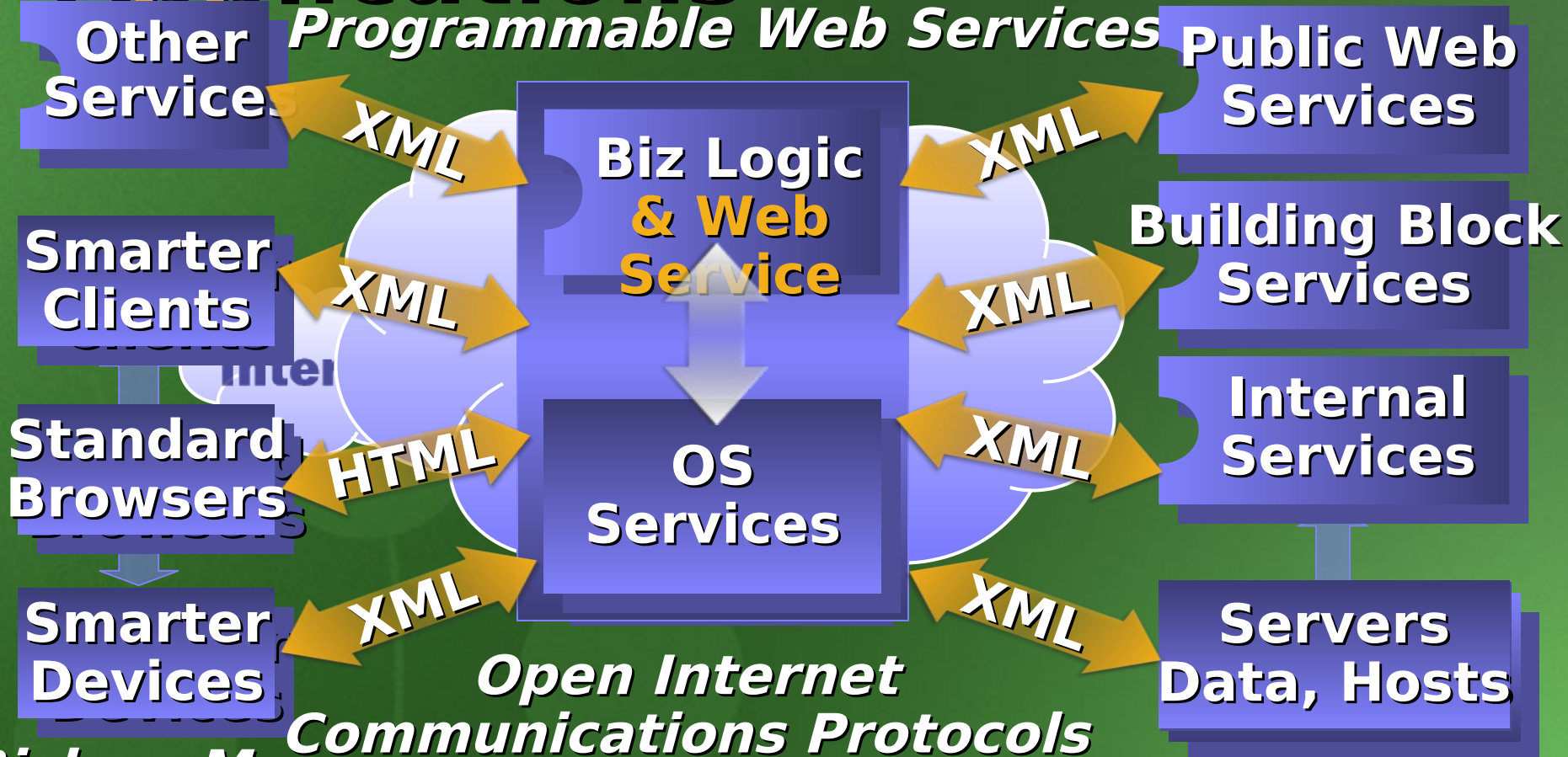
Web protocols with DNS and IP routing have enabled mass-scale "Geo-Scalability"

Separation of data and business logic provide greater scalability and performance while accessing enterprise data.

Next Generation

Applications

Applications Become Programmable Web Services



*Richer, More
Productive User
Experience*

*Applications Leverage
Globally-Available
Federated Web Services*

.NET Platform

Evolving Windows DNA Internet

VS 6.0

Internet

COM+

DNA
Servers

Windows 2000

Visual Studio.NET

Orchestration

Internet

.NET Framework	COM+	.NET Enterprise Servers	Building Block Services
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Windows.NET

2nd Generation 3rd Generation - the .NET Platform

Available
Today

With .NET
Enhancements

New
Capabilities

Next Generation Applications



What Is A Web Service?

Open
Internet
Protocols



Web
Service

A programmable application component accessible via standard Web protocols

Furthermore:

- You can ask a site for a description of the Web Services it offers
- Web Services are defined in terms of the formats and ordering of messages
- Web Service consumers can send and receive messages using XML
- All these capabilities are built using open Internet protocols

SOAP
Discovery

SOAP

Contract Language

SOAP

XML, XSD
HTTP, SMTP

Web Services (In Practice)

Web
Service
Consumer

Discovery

<http://yourservice.com>

HTML or XML with link to SCL

SCL

<http://yourservice.com/SCL>

XML with service descriptions

SOAP

<http://yourservice.com/svc1>

XML/SOAP BODY

Web
Service

Design-Time or Dynamic

Runtime

Building Web Services

- Microsoft provides the leading platform for building web applications and services today
 - Great support for XML, HTTP, HTML
 - Full extensibility enables developers to support the latest protocols
 - The SOAP Toolkit makes this even easier
- Moving forward the new .NET Platform makes building and using web services *automatic* –

Next Generation Applications

Web Services



Service

**Open
Internet
Protocols**

Firewalls can be configured to control access to Web services.

A company may enable access to services provided on the public Internet.



Your Sales Data Service



Your Internal Billing Service



Passport - Identity



Service



Directory and



Search Service



Personalization



Service



Software Delivery



Service



Calendaring Service



Schematized



Storage Service



Notification & Msg



Service



Geographic Mapping Service



Greenwich Mean Time Service

Credit Card Statement Service

...

Internal

Corporate

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Services

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Microsoft

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Building

Block

Service

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Service

Service

Service

Service

Service

Service

Parties

.NET Blueprint

Visual
Studio.
NET

Your Application
and Web Service

Your Internal
Services

Orchestration

.NET
Framework

Operations

Windows
CE, ME,
2000, .NET

Internet Protocols
SOAP "blue book"
HTTP, SMTP, XML

.NET Enterprise
Servers

Building Block
Services

3rd Party Web Service

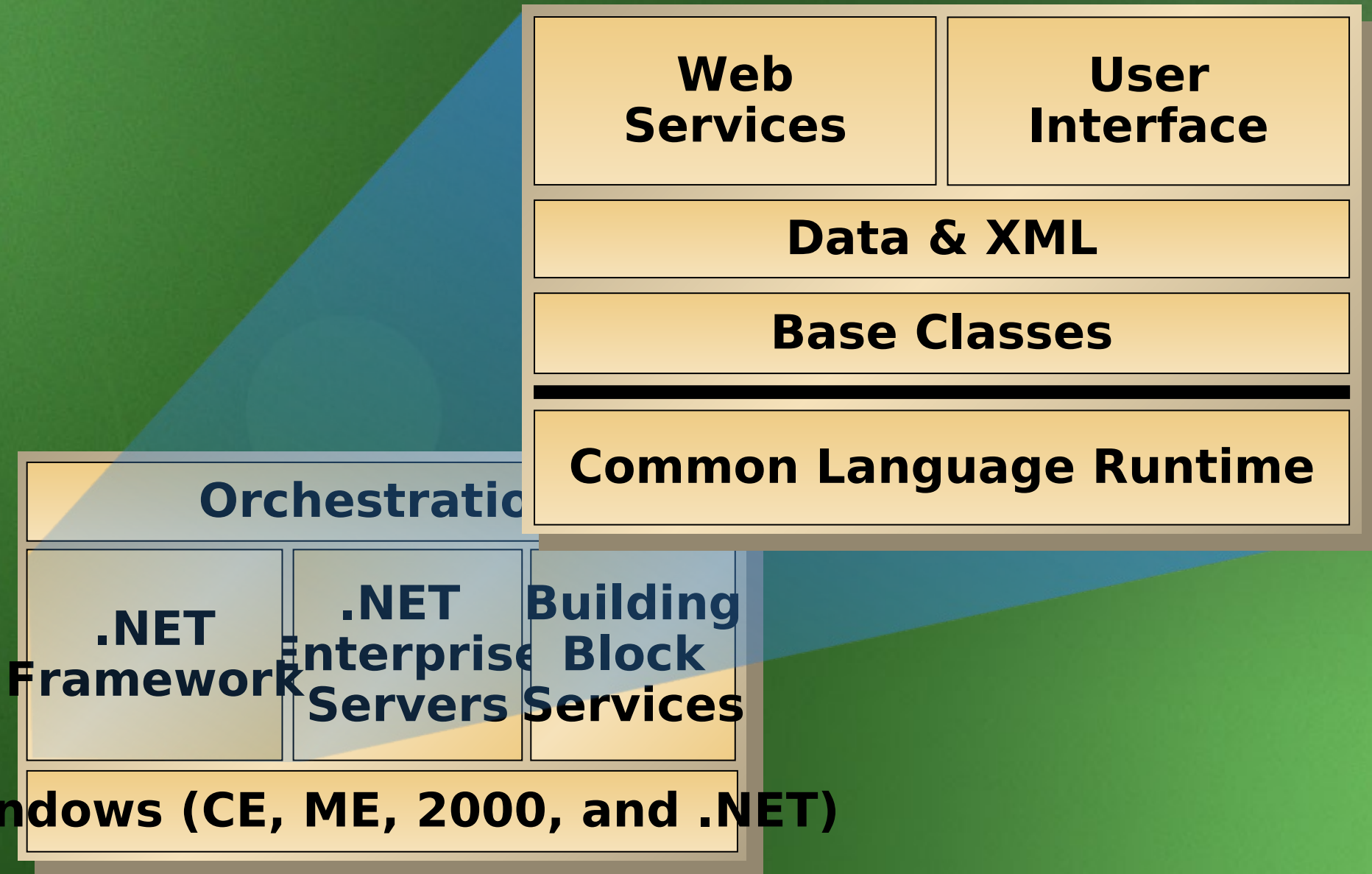
Applications
Using Your
Service

End-User
Clients

.NET Blueprint



.NET Framework



Where do **you** want to go today?

Microsoft